ELSEVIER

Journal of Organometallic Chemistry 640 (2001) 201

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Author Index of Volume 640

Ahlgrén, M., 50
Aitola, E., 21
Almond, M.J., 177
Avtomonov, E.V., 21

Bastl, Z., 170
Bellabarba, R.M., 93
Burschka, C., 140

Cannady, J.P., 177
Champkin, P.A., 182
Cheng, X., 65
Chiang, M.Y., 85
Cho, Y.J., 79
Clancy, G.P., 93
Clegg, W., 182
Czeluśniak, I., 72

Darling, T.A., 177
David Smith, J., 29
Doherty, S., 182

Eaborn, C., 29

Głowiak, T., 72
Gomes, P.T., 93
Green, M.L.H., 93

Heinrich, T., 140
He, L., 127
Hwang, W.-S., 85

Karakaş, D., 37
Kaya, C., 37
Keim, C., 140
Kleij, A.W., 166
Knight, J.G., 182
Kornek, T., 140
Kotov, V.V., 21
Kowalewska, A., 29

Laitinen, R.S., 50
Lambrecht, G., 140
Le Floch, P., 197
Le Grognec, E., 113
Lemenovskii, D.A., 21
Lin, C.-J., 85
Liu, C., 121
Li, X.-G., 65
Llusar, R., 113
Lutz, M., 166

Maiwald, S., 1
Ma, J.-A., 65
Ma, J.-F., 10
Martins, A.M., 93
Mathey, F., 197
Meijer, M.D., 166
Melaimi, M., 197
Müller, G., 1
Müller, T.J.J., 41
Mutschler, E., 140

Nakamura, H., 10
Netz, A., 41
Newman, C.R., 182

Ogden, J.S., 177
Oilunkaniemi, R., 50

Pan, G., 127
Park, J.T., 79
Park, Y., 79
Peng, S., 127
Penka, M., 140
Pietikäinen, J., 50
Pola, J., 170
Polborn, K., 41
Poli, R., 113
Pülm, M., 140

Rees, L.H., 93
Repo, T., 21
Rhodes, B., 182
Richard, P., 113
Robins, E.G., 182

Seo, W.S., 79
Sommer, C., 1
Spek, A.L., 166
Stańczyk, W.A., 29
Šubrt, J., 170
Sundermeyer, J., 21
Sun, H., 127
Sun, W.-H., 57
Szymańska-Buzar, T., 72

Tacke, R., 140
Taube, R., 1
Tian, X., 57

Uriel, S., 113

van Koten, G., 166
Vítek, J., 170

Walsh, R., 177
Weißenborn, H., 1
Wei, Q., 127
Wu, B., 57
Wu, K., 127
Wu, X.-T., 57

Yamamoto, Y., 10
Yoon, S.C., 79

Zhang, C., 121
Zhang, D., 121
Zhou, Q.-L., 65
Zhou, Z., 127
Zhuang, B., 127

PII: S0022-328X(01)01324-9

ELSEVIER

Journal of Organometallic Chemistry 640 (2001) 203–206

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Subject Index of Volume 640

Allenylation
The deviating behavior of thiols in nucleophilic trapping reactions of chromiumcarbonyl phenyl complex substituted propargyl cation, 41
Allyl
Komplexkatalyse: LIX. Die Katalyse der 1,4-*trans*-Polymerisation des Butadiens mit Tris(allyl)neodym(III) $Nd(\eta^3\text{-}C_3H_5)_3$ als Einkomponentenkatalysator—Kinetik und Reaktionsmechanismus, 1
Allylic alkylation
Synthesis of chiral 2-alkyl-8-quinolinyl-oxazoline ligands: reversal of enantioselectivity in the asymmetric palladium-catalyzed allylic alkylation, 65
Anchimeric assistance
Anchimeric assistance by γ-substituents Z, Z = MeO, PhO, MeS or PhS, in reactions of the bromides $(Me_3Si)_2(ZMe_2Si)$-$CSiMe_2Br$ with $AgBF_4$, 29
Arene complexes
The deviating behavior of thiols in nucleophilic trapping reactions of chromiumcarbonyl phenyl complex substituted propargyl cation, 41
Arylamine ligands
A new homobimetallic arenediyl diplatinum(II) unit as building block for macromolecular synthesis. X-ray crystal structure of $[C_6H_2\{CH_2NMe_2\}_2\text{-}1,5\text{-}\{PtCl(PPh_3)\}_2\text{-}2,4]$, 166
Arylboronic esters
Bis(diphosphaferrocene) palladium(II) dimer complexes as efficient catalysts in the synthesis of arylboronic esters, 197
Asymmetric catalysis
Synthesis of chiral 2-alkyl-8-quinolinyl-oxazoline ligands: reversal of enantioselectivity in the asymmetric palladium-catalyzed allylic alkylation, 65

Bimetallic complexes
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93
Building blocks
A new homobimetallic arenediyl diplatinum(II) unit as building block for macromolecular synthesis. X-ray crystal structure of $[C_6H_2\{CH_2NMe_2\}_2\text{-}1,5\text{-}\{PtCl(PPh_3)\}_2\text{-}2,4]$, 166
Butadiene
Komplexkatalyse: LIX. Die Katalyse der 1,4-*trans*-Polymerisation des Butadiens mit Tris(allyl)neodym(III) $Nd(\eta^3\text{-}C_3H_5)_3$ als Einkomponentenkatalysator—Kinetik und Reaktionsmechanismus, 1
Butadiene ligand
Interaction of half-sandwich alkylmolybdenum(III) complexes with $B(C_6F_5)_3$. The X-ray structure of $[CpMo(\eta^4\text{-}C_4H_6)(\mu\text{-}Cl)(\mu\text{-}CH_2)(O)MoCp][CH_3B(C_6F_5)_3]$, 113

Carbon monoxide
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182
Catalysis
Bis(diphosphaferrocene) palladium(II) dimer complexes as efficient catalysts in the synthesis of arylboronic esters, 197
Komplexkatalyse: LIX. Die Katalyse der 1,4-*trans*-Polymerisation des Butadiens mit Tris(allyl)neodym(III) $Nd(\eta^3\text{-}C_3H_5)_3$ als Einkomponentenkatalysator—Kinetik und Reaktionsmechanismus, 1
CD spectra
Synthesis and circular dichroism spectra of silver(I) complexes with *R,R*-DIOP (4*R*,5*R*-*trans*-4,5-bis[(diphenylphosphino)-methyl]-2,2-dimethyl-1,3-dioxalane): crystal structures of $[AgCl(R,R\text{-DIOP})]_2\cdot 2CHCl_3$, $\{[AgBr(R,R\text{-DIOP})]_2\}_2\cdot CH_2Cl_2\cdot 2H_2O$, $[AgI(R,R\text{-DIOP})]_2$ and $[AgSCN(R,R\text{-DIOP})]_2$, 57
C–F bond activation
Density functional studies of the reactivity in the C–F bond activation of fluoromethane by bare lanthanum monocation, 121
C–H activation
A new homobimetallic arenediyl diplatinum(II) unit as building block for macromolecular synthesis. X-ray crystal structure of $[C_6H_2\{CH_2NMe_2\}_2\text{-}1,5\text{-}\{PtCl(PPh_3)\}_2\text{-}2,4]$, 166
Chelating cyclopentadienyl-phosphine complexes
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93
Chelating cyclopentadienyl-phosphine ligands
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93
Chirality
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140
Chiral ligands
Synthesis of chiral 2-alkyl-8-quinolinyl-oxazoline ligands: reversal of enantioselectivity in the asymmetric palladium-catalyzed allylic alkylation, 65
Chromium
Alkylaminophosphanyl substituted half-sandwich complexes of vanadium(III) and chromium(III): preparation and reactivity in ethylene polymerisation, 21
The deviating behavior of thiols in nucleophilic trapping reactions of chromiumcarbonyl phenyl complex substituted propargyl cation, 41
CO-factored force field
Force constant calculations for octahedral complexes of the type $M(CO)_5L$, based on the CO-factored force field, 37

PII: S0022-328X(01)01325-0

Conjugated diimine
Iron carbonyl complexes from 2-[2,3-diaza-4-(2-thienyl)buta-1,3-dienyl]thiophene: N–N bond cleavage and cyclometalation, 85
Copolymerization
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182
Cotton effect
Synthesis and circular dichroism spectra of silver(I) complexes with *R,R*-DIOP (4*R*,5*R*-*trans*-4,5-bis[(diphenylphosphino)-methyl]-2,2-dimethyl-1,3-dioxalane): crystal structures of $[AgCl(R,R\text{-DIOP})]_2 \cdot 2CHCl_3$, $\{[AgBr(R,R\text{-DIOP})]_2\}_2 \cdot CH_2Cl_2 \cdot 2H_2O$, $[AgI(R,R\text{-DIOP})]_2$ and $[AgSCN(R,R\text{-DIOP})]_2$, 57
Crystal structures
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
New ligand substitution modes of $M_2(\mu\text{-}SR)_2(CO)_8$ (M = Mo, W; R = alkyl, aryl): synthesis, structure and properties of new di-nuclear metal(I) carbonyl thiolates, $[M_2(\mu\text{-}SPh)_2(CO)_xL_y]^{n-}$ (M = Mo, W; $x = 6$, 8; $y = 0$, 1; L = PhS, $(Ph)_2PCH_2P(Ph)_2$ and S_2CNEt_2; $n = 1$, 0) and a polymer $[W_2(\mu\text{-}SPh)_2(CO)_6(Ph)_2PCH_2P(Ph)_2]_n$, 127
Synthesis and structure of *ansa*-cyclopentadienyl pyrrolyl titanium complexes: $[(\eta^5\text{-}C_5H_4)CH_2(2\text{-}C_4H_3N)]Ti(NMe_2)_2$ and $[1,3\text{-}\{CH_2(2\text{-}C_4H_3N)\}_2(\eta^5\text{-}C_5H_3)]Ti(NMe_2)$, 79
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)(CO)_3(\eta^4\text{-NBD})]$, 72
C/Si/Ge bioisosterism
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140
Cycloaddition
The deviating behavior of thiols in nucleophilic trapping reactions of chromiumcarbonyl phenyl complex substituted propargyl cation, 41
Cyclometalation
Iron carbonyl complexes from 2-[2,3-diaza-4-(2-thienyl)buta-1,3-dienyl]thiophene: N–N bond cleavage and cyclometalation, 85
Cyclopentadienyl
Synthesis and structure of *ansa*-cyclopentadienyl pyrrolyl titanium complexes: $[(\eta^5\text{-}C_5H_4)CH_2(2\text{-}C_4H_3N)]Ti(NMe_2)_2$ and $[1,3\text{-}\{CH_2(2\text{-}C_4H_3N)\}_2(\eta^5\text{-}C_5H_3)]Ti(NMe_2)$, 79

Derivatised ferrocenes
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93
Derivatised manganocenes
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93
DFT
Density functional studies of the reactivity in the C–F bond activation of fluoromethane by bare lanthanum monocation, 121
Diphosphaferrocene
Bis(diphosphaferrocene) palladium(II) dimer complexes as efficient catalysts in the synthesis of arylboronic esters, 197
Diphosphines
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182
1,3-Disilacyclobutane
UV laser-induced photolysis of 1,3-disilacyclobutane in oxygen for chemical vapour deposition of nano-sized polyoxocarbosilane films, 170

Electrochemical reaction
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10
Electron transfer
Density functional studies of the reactivity in the C–F bond activation of fluoromethane by bare lanthanum monocation, 121
EPR properties
Interaction of half-sandwich alkylmolybdenum(III) complexes with $B(C_6F_5)_3$. The X-ray structure of $[CpMo(\eta^4\text{-}C_4H_6)(\mu\text{-}Cl)(\mu\text{-}CH_2)(O)MoCp][CH_3B(C_6F_5)_3]$, 113
Ethylene
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182

Fluoromethane
Density functional studies of the reactivity in the C–F bond activation of fluoromethane by bare lanthanum monocation, 121
Force constants
Force constant calculations for octahedral complexes of the type $M(CO)_5L$, based on the CO-factored force field, 37
Functionalised metallocene compounds
Synthesis of metallocenes of zirconium, hafnium, manganese, iron, tin, lead and half-sandwich complexes of rhodium and iridium containing the ligands $(\eta\text{-}C_5R_4CR'_2PMe_2)$, where R and R′ may be H or Me, 93

Germanium
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140

Half-sandwich
Interaction of half-sandwich alkylmolybdenum(III) complexes with $B(C_6F_5)_3$. The X-ray structure of $[CpMo(\eta^4\text{-}C_4H_6)(\mu\text{-}Cl)(\mu\text{-}CH_2)(O)MoCp][CH_3B(C_6F_5)_3]$, 113
Hexachloroiridate
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
Hexachloroplatinate
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
Homogeneous Ziegler–Natta catalysts
Alkylaminophosphanyl substituted half-sandwich complexes of vanadium(III) and chromium(III): preparation and reactivity in ethylene polymerisation, 21

Infrared spectra
Force constant calculations for octahedral complexes of the type $M(CO)_5L$, based on the CO-factored force field, 37

Iridium
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10
Iron carbonyl complexes
Iron carbonyl complexes from 2-[2,3-diaza-4-(2-thienyl)buta-1,3-dienyl]thiophene: N–N bond cleavage and cyclometalation, 85
Isocyanoazobenzene
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10
Isomerization
The deviating behavior of thiols in nucleophilic trapping reactions of chromiumcarbonyl phenyl complex substituted propargyl cation, 41

Lanthanum monocation
Density functional studies of the reactivity in the C–F bond activation of fluoromethane by bare lanthanum monocation, 121
Laser photolysis
UV laser-induced photolysis of 1,3-disilacyclobutane in oxygen for chemical vapour deposition of nano-sized polyoxocarbosilane films, 170

Matrix isolation
Photolysis of $(Me_2Si)_6$ in argon matrices doped with high concentrations (ca. 20%) of N_2O or C_2H_4O: formation of $(Me_2SiO)_6$, 177
Mechanism
Anchimeric assistance by γ-substituents Z, Z = MeO, PhO, MeS or PhS, in reactions of the bromides $(Me_3Si)_2(ZMe_2Si)$-$CSiMe_2Br$ with $AgBF_4$, 29
$(Me_2Si)_6$
Photolysis of $(Me_2Si)_6$ in argon matrices doped with high concentrations (ca. 20%) of N_2O or C_2H_4O: formation of $(Me_2SiO)_6$, 177
Metathesis
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)$-$(CO)_3(\eta^4\text{-}NBD)]$, 72
Methoxycarbonylation
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182
Molybdenum
Interaction of half-sandwich alkylmolybdenum(III) complexes with $B(C_6F_5)_3$. The X-ray structure of $[CpMo(\eta^4\text{-}C_4H_6)(\mu$-$Cl)(\mu\text{-}CH_2(O)MoCp][CH_3B(C_6F_5)_3]$, 113
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)$-$(CO)_3(\eta^4\text{-}NBD)]$, 72
Mo_2S_2-unit
New ligand substitution modes of $M_2(\mu\text{-}SR)_2(CO)_8$ (M = Mo, W; R = alkyl, aryl): synthesis, structure and properties of new di-nuclear metal(I) carbonyl thiolates, $[M_2(\mu$-$SPh)_2(CO)_xL_y]^{n-}$ (M = Mo, W; $x = 6, 8$; $y = 0, 1$; L = PhS, $(Ph)_2PCH_2P(Ph)_2$ and S_2CNEt_2; $n = 1, 0$) and a polymer $[W_2(\mu\text{-}SPh)_2(CO)_6(Ph)_2PCH_2P(Ph)_2]_n$, 127
Muscarinic antagonists
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140

Nanostructured polyoxocarbosilane
UV laser-induced photolysis of 1,3-disilacyclobutane in oxygen for chemical vapour deposition of nano-sized polyoxocarbosilane films, 170
Neodymium
Komplexkatalyse: LIX. Die Katalyse der 1,4-*trans*-Polymerisation des Butadiens mit Tris(allyl)neodym(III) $Nd(\eta^3\text{-}C_3H_5)_3$ als Einkomponentenkatalysator—Kinetik und Reaktionsmechanismus, I
N–N Bond activation
Iron carbonyl complexes from 2-[2,3-diaza-4-(2-thienyl)buta-1,3-dienyl]thiophene: N–N bond cleavage and cyclometalation, 85
Norbornadiene
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)$-$(CO)_3(\eta^4\text{-}NBD)]$, 72

Olefin polymerisation
Alkylaminophosphanyl substituted half-sandwich complexes of vanadium(III) and chromium(III): preparation and reactivity in ethylene polymerisation, 21
ORD
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140
Organometallic chemistry
Iron carbonyl complexes from 2-[2,3-diaza-4-(2-thienyl)buta-1,3-dienyl]thiophene: N–N bond cleavage and cyclometalation, 85
Oxidation
Photolysis of $(Me_2Si)_6$ in argon matrices doped with high concentrations (ca. 20%) of N_2O or C_2H_4O: formation of $(Me_2SiO)_6$, 177
UV laser-induced photolysis of 1,3-disilacyclobutane in oxygen for chemical vapour deposition of nano-sized polyoxocarbosilane films, 170

Palladium
Bis(diphosphaferrocene) palladium(II) dimer complexes as efficient catalysts in the synthesis of arylboronic esters, 197
Palladium complexes
Synthesis of chiral 2-alkyl-8-quinolinyl-oxazoline ligands: reversal of enantioselectivity in the asymmetric palladium-catalyzed allylic alkylation, 65
Pentacarbonyls
Force constant calculations for octahedral complexes of the type $M(CO)_5L$, based on the CO-factored force field, 37
Photochemical reaction
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10
Photolysis
Photolysis of $(Me_2Si)_6$ in argon matrices doped with high concentrations (ca. 20%) of N_2O or C_2H_4O: formation of $(Me_2SiO)_6$, 177
Platinum
A new homobimetallic arenediyl diplatinum(II) unit as building block for macromolecular synthesis. X-ray crystal structure of $[C_6H_2\{CH_2NMe_2\}_2$-$1,5\text{-}\{PtCl(PPh_3)\}_2$-$2,4]$, 166
Polymerisation
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)$-$(CO)_3(\eta^4\text{-}NBD)]$, 72

Polymerization
Komplexkatalyse: LIX. Die Katalyse der 1,4-*trans*-Polymerisation des Butadiens mit Tris(allyl)neodym(III) $Nd(\eta^3\text{-}C_3H_5)_3$ als Einkomponentenkatalysator—Kinetik und Reaktionsmechanismus, 1
Pyrrolyl
Synthesis and structure of *ansa*-cyclopentadienyl pyrrolyl titanium complexes: $[(\eta^5\text{-}C_5H_4)CH_2(2\text{-}C_4H_3N)]Ti(NMe_2)_2$ and $[1,3\text{-}\{CH_2(2\text{-}C_4H_3N)\}_2(\eta^5\text{-}C_5H_3)]Ti(NMe_2)$, 79

Rhodium
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10
R,R-DIOP
Synthesis and circular dichroism spectra of silver(I) complexes with *R,R*-DIOP (*4R,5R-trans*-4,5-bis[(diphenylphosphino)-methyl]-2,2-dimethyl-1,3-dioxalane): crystal structures of $[AgCl(R,R\text{-DIOP})]_2\cdot 2CHCl_3$, $\{[AgBr(R,R\text{-DIOP})]_2\}_2\cdot CH_2Cl_2\cdot 2H_2O$, $[AgI(R,R\text{-DIOP})]_2$ and $[AgSCN(R,R\text{-DIOP})]_2$, 57
Ruthenium
Preparation and characterization of ruthenium(II), rhodium(III) and iridium(III) complexes of isocyanide bearing the azo group, 10

Selectivity
Selectivity for the methoxycarbonylation of ethylene versus CO–ethylene copolymerization with catalysts based on C_4-bridged bidentate phosphines and phospholes, 182
Silene
UV laser-induced photolysis of 1,3-disilacyclobutane in oxygen for chemical vapour deposition of nano-sized polyoxocarbosilane films, 170
Silicon
Anchimeric assistance by γ-substituents Z, Z = MeO, PhO, MeS or PhS, in reactions of the bromides $(Me_3Si)_2(ZMe_2Si)\text{-}CSiMe_2Br$ with $AgBF_4$, 29
Syntheses and pharmacological characterization of achiral and chiral enantiopure C/Si/Ge-analogous derivatives of the muscarinic antagonist cycrimine: a study on C/Si/Ge bioisosterism, 140
Silver complexes
Synthesis and circular dichroism spectra of silver(I) complexes with *R,R*-DIOP (*4R,5R-trans*-4,5-bis[(diphenylphosphino)-methyl]-2,2-dimethyl-1,3-dioxalane): crystal structures of $[AgCl(R,R\text{-DIOP})]_2\cdot 2CHCl_3$, $\{[AgBr(R,RDIOP)]_2\}_2\cdot CH_2Cl_2\cdot 2H_2O$, $[AgI(R,R\text{-DIOP})]_2$ and $[AgSCN(R,R\text{-DIOP})]_2$, 57
Spectroscopy and electrochemistry
New ligand substitution modes of $M_2(\mu\text{-}SR)_2(CO)_8$ (M = Mo, W; R = alkyl, aryl): synthesis, structure and properties of new di-nuclear metal(I) carbonyl thiolates, $[M_2(\mu\text{-}SPh)_2(CO)_yL_z]^{n-}$ (M = Mo, W; $x = 6$, 8; $y = 0$, 1; L = PhS, $(Ph)_2PCH_2P(Ph)_2$ and S_2CNEt_2; $n = 1$, 0) and a polymer $[W_2(\mu\text{-}SPh)_2(CO)_6(Ph)_2PCH_2P(Ph)_2]_n$, 127
Structures
Synthesis and circular dichroism spectra of silver(I) complexes with *R,R*-DIOP (*4R,5R-trans*-4,5-bis[(diphenylphosphino)-methyl]-2,2-dimethyl-1,3-dioxalane): crystal structures of $[AgCl(R,R\text{-DIOP})]_2\cdot 2CHCl_3$, $\{[AgBr(R,R\text{-DIOP})]_2\}_2\cdot CH_2Cl_2\cdot 2H_2O$, $[AgI(R,R\text{-DIOP})]_2$ and $[AgSCN(R,R\text{-DIOP})]_2$, 57
Substitution mode
New ligand substitution modes of $M_2(\mu\text{-}SR)_2(CO)_8$ (M = Mo, W; R = alkyl, aryl): synthesis, structure and properties of new di-nuclear metal(I) carbonyl thiolates, $[M_2(\mu\text{-}SPh)_2(CO)_yL_z]^{n-}$ (M = Mo, W; $x = 6$, 8; $y = 0$, 1; L = PhS, $(Ph)_2PCH_2P(Ph)_2$ and S_2CNEt_2; $n = 1$, 0) and a polymer $[W_2(\mu\text{-}SPh)_2(CO)_6(Ph)_2PCH_2P(Ph)_2]_n$, 127

Tetrachloroaurate
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
Tetrachloroplatinate
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
Tin
The initiation of ring-opening metathesis polymerisation of norbornadiene by seven-coordinate molybdenum(II) compounds. X-ray crystal structure of $[Mo(\mu\text{-}Cl)(SnCl_3)(CO)_3(\eta^4\text{-NBD})]_2$, 72
Titanium
Synthesis and structure of *ansa*-cyclopentadienyl pyrrolyl titanium complexes: $[(\eta^5\text{-}C_5H_4)CH_2(2\text{-}C_4H_3N)]Ti(NMe_2)_2$ and $[1,3\text{-}\{CH_2(2\text{-}C_4H_3N)\}_2(\eta^5\text{-}C_5H_3)]Ti(NMe_2)$, 79
Triphenyltelluronium
Cation–anion interactions in triphenyl telluronium salts. The crystal structures of $(Ph_3Te)_2[MCl_6]$ (M = Pt, Ir), $(Ph_3Te)[AuCl_4]$, and $(Ph_3Te)(NO_3)\cdot HNO_3$, 50
Trisyl
Anchimeric assistance by γ-substituents Z, Z = MeO, PhO, MeS or PhS, in reactions of the bromides $(Me_3Si)_2(ZMe_2Si)\text{-}CSiMe_2Br$ with $AgBF_4$, 29

Vanadium
Alkylaminophosphanyl substituted half-sandwich complexes of vanadium(III) and chromium(III): preparation and reactivity in ethylene polymerisation, 21

W_2S_2 unit
New ligand substitution modes of $M_2(\mu\text{-}SR)_2(CO)_8$ (M = Mo, W; R = alkyl, aryl): synthesis, structure and properties of new di-nuclear metal(I) carbonyl thiolates, $[M_2(\mu\text{-}SPh)_2(CO)_yL_z]^{n-}$ (M = Mo, W; $x = 6$, 8; $y = 0$, 1; L = PhS, $(Ph)_2PCH_2P(Ph)_2$ and S_2CNEt_2; $n = 1$, 0) and a polymer $[W_2(\mu\text{-}SPh)_2(CO)_6(Ph)_2PCH_2P(Ph)_2]_n$, 127
X-ray structure
Interaction of half-sandwich alkylmolybdenum(III) complexes with $B(C_6F_5)_3$. The X-ray structure of $[CpMo(\eta^4\text{-}C_4H_6)(\mu\text{-}Cl)(\mu\text{-}CH_2)(O)MoCp][CH_3B(C_6F_5)_3]$, 113